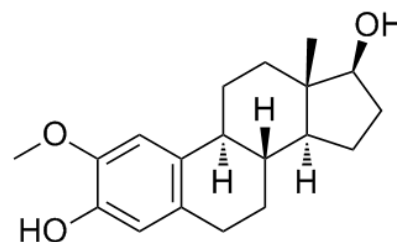


**Product Name** : 2-Methoxyestradiol  
**Cat. No.** : PC-42847  
**CAS No.** : 362-07-2  
**Molecular Formula** : C<sub>19</sub>H<sub>26</sub>O<sub>3</sub>  
**Molecular Weight** : 302.4079  
**Target** : HIF/HIF Prolyl-hydroxylase  
**Solubility** : DMSO: ≥ 36 mg/mL; H<sub>2</sub>O: < 0.1 mg/mL



## Biological Activity

2-Methoxyestradiol (2ME2;NSC-659853) is a metabolite of estradiol-17 $\beta$  and a novel antimetabolic, antiangiogenic agent, binds to tubulin at or near the colchicine site and inhibits the polymerization of tubulin in vitro; suppresses microtubule dynamic instability in living interphase cells with mitotic IC<sub>50</sub> of 1.2  $\mu$ M, inhibits bFGF and VEGF-induced neovascularization and suppresses the growth of human breast carcinoma in mice; also downregulates hypoxia-inducible factor-1 (HIF) at the posttranscriptional level and inhibits HIF-1-induced transcriptional activation of VEGF expression.

## References

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Cushman M, et al. J Med Chem. 1995 Jun 9;38(12):2041-9.

Klauber N, et al. Cancer Res. 1997 Jan 1;57(1):81-6.

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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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